## DRYING WOULD SAVE WASTE OF PRODUCE

Saving to Consumers Would Be Big Economic Factor, It Is Declared.

GERMANS LEAD THE WAY

New American Process Sur-. passes All Others, However, in Saving Flavor.

Fifty- thousand dollars was cast into the Atlantic the other day by officials of the Department of Health. To be specific, something like 2,000, 000 overripe oranges were destroyed because they were not fit for sale. Thus 250 tons of foodstuff from Porto Rico and Jamaica were lost after having been brought a long distance at a considerable outlay.

Again, not long ago 3,300 bags of onions were thrown into San Francisco Bay because they had deteriorated in the warehouses and could not be sold. If searched the newspapers would show that these in stances are but two among many thousands of similar cases of market cases. They give an inkling of the enormous wastage in produce that goes on in the United States annually, and all because green vegetables and fresh fruits will remain edible so long and no longer. The ultimate consumer pays for this consumer pays for this wastage. The loss could be prevented if part of the moisture in the fruits and vegetables

ssewife Pays for Water.

The public is scandalized when watered stock figures in the realms of finance, but it has been putting up with something much akin to it in the matter of foodstuffs. The house wife has surchased heavily of water when she 'hought she was getting a full measure of nourishment.

Take, for instance, the wheat from which our axily loaf comes. As the farmer ships his grain to the elevator 20 per cent of the wheat is con-tained water. In other works, out of five carloads of wheat the moisture present is equivalent to one carload of water. Freight is paid on that water at the same rate as for the transportation of the grain and the ultimate consumer foots that bill when he buys his barrel of flour. Not only that but the baker's loaf—sold by weight—is 35 per cent water.

Consumer Pays Toll.

The average citizen does not realize it, but his watered foodstuffs are levying tell upon him all along the line. It is that moisture content that invites deterioration and decay and but for the icabox—the upkeep of which means a tidy annual outlay—spoiling and waste would cost still more.

ce the story a step back. marketman has to contend with the same conditions; a goodly percentage of his stock wilts and deteriorates upon his hands because of the trouble breeding moisture; and what he sells must bring a higher price in order to fetch a general profit. The whole-saler is confronted by the same problem, because he has to pay charges for transportation, cover depreciation in transit, and sell at prices that will insure a balance on the right side of his ledger.

Applies to Farmer, Too.

Again, the farmer must ship only the very best of his produce in order markets. As a result, where his fruits and vegetabels ripen overabundantly he must count broadly as a loss that part of his hargest which remains on his hands. He must get enough from his sales to pay for this wastage and the ultimate consumer sighs at the prices thus made necessary.

A possible remedy for this state of things lies in a process recently perfected in this country that makes it practicable to dry fruits and vegetables without impairing their palatableness and their natural nutritive values. The hard pressed Germans have already been doing something in

Germans Sought Solution. Some years ago the Germans turned

their minds to conserving surplus farm products, and in a way they sought to imitate nature, who taught primitive man how things would keep when well dried by the sun or by fire. Briefly, their method consists in partly cooking or parboiling the vegeta-bles and then drying them sufficiently fermentation in storage. Reboiling is necessary to prepare these vegetables for the table. Now twice cooked food for the table. Now twice cooked food is somewhat flat, and not only that, there is a decided doss in nutritive Palatableness has a lot to do with digestibility.

Good Silage Crops.

The beet and the potato were the two vegetables that the Germans worked with on a large scale origi naily. Later they took up the drying of beet tops, potato tops, peas, and grains for the feeding of domestic

Drying to preserve and drying merely to produce a sense of dryness are two entirely different things. The housewife knows this when she

bakes bread too quickly.

The process for drying vegetables referred to as having been developed in this country is the work of Wal-dron Williams, Woodford Brooks and Dr. F. G. Wiechmann. Mr. Williams tells the story of the work of himself and his associates.

"I never realized how little was known about the art of drying until my attention was attracted to it as a field of commercial effort, he said "I turned to my fellow alumni at Co-lumbia and hunted high and low in the technical libraries, but when it came to practical details none of these sources of information was of

material aid. German Patents Showed Little.

"The German patents disclosed some things, but half of any process patent is the secret of application, and the German drying experts were not taking the public into their confidence. Finally we decided to make our own experiments, and something like two years ago we hit upon the working principles of our method. "Before our plants were working

for the market at Middle River, Cal.,
Bound Brook, N. J., and Webster, N.
Y., it occurred to me that it might be
well to visit Germany for the purpose of seeing how our products compared with those turned out by the factories of the Fatheriand. I went fortified with letters of introduction to the foremost of those establishments, and logically I chose to make my first call upon the magning director of the upon the managing director of the Even Official Calculation of most noted of the vegetable drying

Was Well Received.

"He received me in a very hand-somely appointed office, bearing all the hallmarks of commercial success the object of my visit. I did this briefly. At once the Herr Direktor waved his hand deprecatorily and expressed his sincere regret that I should Difference Depends Upon the come so far to lay before him any-thing that pertained to the art of drying. 'I could have saved you the trip, Mr. Williams, because we know all there is to know about drying and improvement is quite impossible,' he

"Naturally I was not disposed to linger, neither was I inclined to dis-play my samples, but the alert Herr Direktor had seen that I had some and more out of politeness than any thing else expressed a desire to see them. It was plain that he was at once interested, and before long he had six or seven of his technical as-sociates summoned to the office, and they too were impressed.

Offered to Buy.

"The Herr Direktor dismissed them nd when the room was cleared, turn ed to me eagerly and said: 'Mr. Wil liams, name your price. I did not be-lieve vegetables could ever be dried to look like your samples.' As our pa tents were then pending in the German patent office I was not prepared to come to terms, but I left that establishment satisfied that we Yankees had forged a long way shead in a his first inquiry, he is inclined to be very difficult art, and I realized that lieve that the latter is the case. had forged a long way ahead in a we had the solution of a vexing eco nomic problem-the utilization and the preservation for subsequent con-sumption of millions of tons of vegetables and fruits that would othrwise go to waste. "How well we have succeeded in re-

taining the natural flavor of fresh vegetables is evidenced by the testimoney of a New York housekeeper, a rising probably eight minutes later, friend of mine. Merely to satisfy her and setting eight minutes later. curiosity I sent her a package of our Both are correct officially. dried spinach. The next time I saw her she said: Why, Mr. Williams that apinach was actually fresher than the green stuff that I buy at my grocer's. Naturally, because that spinach was dried inside of eight hours from the time it was picked, while the provision store was selling spinach anywhere from a week to ten days old.

Treated When Fresh

"We treated the vegetable when it was succulent and fresh and full flavored. The store articles had been deteriorating for days before it was

"The Department of Agriculture is the authority for the statement that not less than 50 per cent of the fruits and vegetables grown in the United States never reach the consumer. Of course, a very large part of the wast-age is in the form of fruit, but from the standpoint of conservation of foodstuffs it seems almost criminal when one considers the enormous quantities of vegetables which are or thrown away or destroyed because the price does not warrant the farmer in shipping them to the market.

Can Be Preserved.

"Why shouldn't these products be o conserved that they would keep indefinitely and be welcome upon any table? It is possible by our drying regetables in forms that are bound n to the housewife and a comfort to the family purse. Our dried products, for instance, can be sold at a lower price than the normal rethat his perishable wares may stand tail market price for green stuffs, reasonably well their journey to the and we should only find fresh vegethere is an overabundance. But then, however, would be the time when we could buy and dry most economically. and by thus conserving the surplus it would be possible to maintain a general balance in the foodstuff market.
"The Government experts declare that of the potatoes in domestic use something like 25 per cent of their weight is wasted in paring, and that there is a further loss of 15 per cent owing to deterioration and sprouting in storage. I know as a fact that quite 10 per cent of our potatoes are wasted on the farm in the form of what is known as culls-potatoes in-jured in digging or those that do not

quite come up to the market stand-Potato Flour Possibilities.

ards.

"With plants suitably located, a very large share of these culls could in the Capital, and sets later. In the be dried and made into potato flour, fall and winter, with the sun south which is good for bread, soups, pan-cakes and a filling in certain textiles.

"A pound of our dried, mixed vege-tables prepared especially for soups furnish soup enough to feed nearly 7,000 persons. The raw vegetables before drying would fill at least print a volume large enough to carry thirty barrels and weight probably a separate table for every commun. more than 1,500 pounds.

"We are shipping these goods standard time, abroad at the present time. Inded, in In other wo some of the places the men otherwise that way—after figuring the exact would not be able to have fresh vegething by longitude that the sun will tables. Anyone with half an eye to economy will appreciaate what this dividing the earth into north and saving in weight and bulk means south hemispheres, it is necessary to Transportation charges are according-ly lower. For military expeditions as you move north and south, the and naval operations covering pro-ratio of the declination of the sun, or

## INTRICATE FIGURES

Time Show Eight Minutes Variation.

and courteously asked me to explain BOTH TABLES ARE CORRECT

Use of Standard or Local Time.

,What time does the sun rise in Washington? What time does it set? When it's up, and when it's down might suggest itself to the facetious but the automobilist who must have his lamps lighted by half an hour after sunset, does not appreciate any flippancy on the subject.

Consequently he generally watches the weather tables in the newspapers for this information, gleaned from official sources. But, there's the rub. He may see in one of the morning papers that the sun sets at one time while in The Times he will probably see that it sets just eight minutes later, giving him eight minutes of grace. How in Sam Hill, he asks, can official tables on the subject disagree? Is some one careless printing them?

And not finding a ready answer

Discrepancy Explained. But such, gentle reader, is far from the fact Official tables of the Coast and Geodetic Survey say that the sun will rise in Washington in a given day, at a given hour. For the same day official computations from the Naval Observatory will have the sun

Both are correct officially.

But there is this difference. The Naval Observatory computation is based upon standard time. The Coast and Geodetic Survey table, unless it hap-Geodetic Survey, table, unless it hap-pens to be an especially prepared one, is based on local time.

Contrary to general belief, standard time and local time are not the same in Washington, though a lot of official scientific records and time computa-tions are based on the meridian of Washington.

Consequently, if you read the Coast and Geodetic table of sunrise and sunset, it will not be correct, according to your watch, or the family clock, as nearly all of them are set by standard time in Washington, which runs eight minutes ahead of the sun.

Philadelphia Not Slow.

Philadelphia, being eight minutes in longitude east of Washington, is the only city using eastern time that does not have to make an allowance in records of this sort between standard and local time, as they are the same It is noon, standard time, in Philadelphia, when the sun is directly on the meridian of that city.

Why, you may ask, are the table not put in standard time, the time that everybody uses, so there would be no Fra Angelico, Boticelli, the Bellinis. possible confusion. Prof. W. S., Eichelberger, director of the department of the nautical almanac of the Naval Observatory, and Dr. E. Lester Jones, su-perintendent of the Coast and Geodetic Survey, answer that it is impossible. In other words, it can't be don simple as it may seem to you, and as simple as it seemed to the poor re-porter. He asked why it was not possible to take all of the cities in the longi-tude of eastern time, figure the sun-rise for them by their longitude, and then put it all down in standard time.

And I'll bet you never thought of the answer either? It was patiently explained that the sun does not rise at the same hour in two cities that may be on exactly the same degree, or line of longitude. Latitude makes a difference. Don't you remember reading, in your old geography, if not later, how long the days are in northern countries in spring and summer? And how short they were in winter? The declination of the sun makes the difference

if you know what that means. Varies With Latitude,

For instance with the sun north of the equator, the sun rises earlier at any point on the longitude of Washington, in far-off Canada, than it does Therefore, the time of sunset and sun rise, depends upon latitude, as well as longitude, or the two comthe figures secured, are always local time figures, and it is not possible to a separate table for every commun-ity, and they cannot be grouped by

In other words-if you don't get it rise at the equator, the center line tracted periods nothing could be bet-ter or more satisfying to the men." right angle plane of the earth. But

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Because of this, the Naval Observa tory has prepared, and soon hopes to have ready for distribution, a set of tables of sunrise and sunset in all of the principal cities of the United States. They are necessarily stated in local time, which in few instances is standard time. But with the table will go a table of allowances to be made in the various cities between local and standard time. That is, each city will be told how many min-utes to add or subtract, to get the correct sunrise and sunset figures,

according to their timepieces.

The Coast and Geodetic Survey gives a comprehensive chart by which the sunrise and sunset in any spot on the earth can be figured, but it is not readily assimilated by the lay culator, who has to look up latitude and longitude figures to make the proper additions or deductions from the printed tables. But then these tables are printed primarily for the benefit of mariners who know all about latitude and longitude, declinaion of the sun and logarithm

There is another feature about the sunset that may puzzle you. Yo may see the sun full in the sky som time, when, officially, by an accurate chronometer, it has set. Many visi-tors at Fort Myer have commented on the fact that the sunset gun is fired there, while the sun is still streaming down on the parade

Variation Again Explained.

Science accounts for it easily, how ever. The scientists figure the sunset as the time the upper limb (half) of the sun dips into the sea or goes behind the plane, or mean level of the earth to an eye fifteen feet above the sea, or the mean plane or average level of the earth.

If you are standing on an emmi-nence like Fort Myer you are consid-erably above the plane of the earth, and you can see the sun when it has set, on the earth's plane, or down on the level. Likewise the sun may set behind a mountain, long before it has officially set in the valley you may happen to be in. And if you are on the mountain, the sun sets much later

the Naval Observatory on the basis of standard time, so it will not do
to tell the policeman that his old
table is not running by his watch.
The police table is, however, a perpetual table—that is not corrected each year-and may show some little

the maximun, a mighty small loop TELLS OF BRILLIANT AGE.

Columbus and his contemporaries were pictured as men whose places in history are secure, in a lecture by James J. Walsh, seducator, psychol ogist, and historian at the Nationa Theater last night, under the auspices of the Knights of Columbus. This was the first of a series of lectures by

There were more great men alive, doing wonderful things that are never to be forgotten, during the time of Columbus, the speaker said, than at any other time in the world's history. 'He mentioned among these im mortals Copernicus, Raphael, Leonardo da Vinci, Michael Angelo, Titian Fra Lippo Lippi, Correggio, and Tin toretto.

then, perhaps, that's worse, but it's TAX ON PROFITS IS **URGED FOR 1918** 

> Democratic Revenue Bill Embraces Levy on All "Velvet" Above 8 Per Cent.

START DRAFT TOMORROW

Revision of Inheritance Tax With 50 Per Cent Increase Is Also Expected.

If you make more than S per cent n business you are likely to meet a special Government tax on "excess profits" at the beginning of the calendar year 1918. The forthcoming Democratic revenue bill, according to eliable information today, will levy a tax on such profits. This will be in addition to the income and corporate

Democratic members of the Ways and Means Committee will meet toforrow to start the draft of the new revenue bill, which must be passed at this session if the Treasury vaults are to be refilled. After discarding numerous suggestions, it was learned today that the Democratic leaders in the House, after consulting with Secretary McAdoo, have practically decided to draft a bill along the loi-

A tax of 5 to 8 per cent on all "excess profits," and all profits above 8 per cent on the investment are to be regarded as "excess."

Revision of the inheritance tax, the mountain, the sun sets much later than it would otherwise. Of course, this applies to the sunrise, too, but not many city folks generally see the sun rise.

Pelice Net Woven Tight.

Automobilists might take heed of the fact that tables on sunset at police headquarters, which are telephoned each day to precinct forces phoned each day to precinct forces throughout the city, are compiled by the Naval Observatory on the basis with an increase of about 50 per cent

It is contemplated that these freasury notes shall be redeemed as juickly as possible after July 1, when the annual returns from the income tax and other internal revenue taxes will begin to reach the Treasury. It is estimated the Treasury will re-ceive several hundred mil'ion dollars during the month of July. During the months of April, May and June, it is said, there will not be suffi-cient money in the Treasury to pay current bills, and the short-term notes must produce this reserve nust produce this revenue.

The plan of the Administration leadshall run with the calendar instead of the fiscal year, and this new tax will not go into effect until January

Tentative Tax Agreed On.

A tax of from 5 to 8 per cent on all excess profits above 8 per cent is the tax tentatively agreed upon by the Democrats of the House Committe who have had under advisement va-The basis of the new revenue bill its share of the fighting.

To Take Procede The revenue bill is expected to take precedence in the House as soon a the appropriation measures are out of the way? Democrats say it is imperative that a revenue bill shall be passed at the short session, and the Administration forces in both houses

will be set to work preparing the way for the easy progress of the measure through Congress before March 4.

The more influential Democratic nembers of the Ways and Means Committee have conferred with Secretary McAdoo over the outlook, and it is said the Administration will give its support to a revenue bill embracing the features named. The Ways and Means Committee will draft the bill within the next few weeks, possibly within the next few days. An initial conference of Democratic members of mittee will be held Tuesday

crease in import duties have be practically abandoned.

QUESTIONS DRY BILL

Dr. Wiley Advocates Temperance But Not Prohibition.

any stringent liquor legislation.

In an address on "Temperance," de livered at the Fifth Baptist Church, last night, Dr. Wiley told of the harmful influence of Congress in refusing to listen to the voice of the citizens of the District when local legislation is before that body.

"If Congress should vote as it real-"Ir Congress should vote as it really feels on the matter," he continued, "there would be no prohibition in the District. Regard for the citisens of the District influences the men on

Capitol Hill to a very small extent.

"Every man should be a 'teetotaler of his own free will, but it is a question of whether we have a right to regulate another man's private life."

NEW EASTERN STAR CHAPTER. The consecration of Unity Chapter, No. 22, Order of the Eastern Star, whose petition for a charter was granted last Thursday, was the busi ness of the session of the grand chap ter at the Scottish Rite Cathedral Third and E streets northwest The ceremonies were conducted by Worthy Grand Matron Ide V. Faber and Grand Patron Ben W Murch, Mrs. Emma C. Ocobock, Michigan, worthy grand matron of the general grand chapter, installed the officers. Miss Maude E. B. Wright was the soloist. Under the direction of Charles S. Hyer the

RELIGIOUS MOVE IN FRANCE. Jean A. Picard, who came from the

oir gave special music.

French trenches for a lecture tour of America, told a congregation at the Church of the Covenant yesterday afternoon that a wave of religious sentiment is sweeping over France or the wings of war. "France is turning more to the spiritualistic, and the new generation is turning more to the churches," the speaker said. Mr. Picard said the French clergy is doing

## will be a higher inheritance tax and a new levy on "excess profits," this latter being patterned somewhat after the English tax. DISEASE PLANNED

Arrangements for Campaign to Be Taken Up at Conference This Week.

Plans for fighting the spread of the while pine blister disease, which threatens the destruction of white McAdoo over the outlook, and it is pine timber valued at \$260,000,000, will be the principal subject of consideraference to be held at the Willard Ho tel on Thursday and Friday.

Delegates, more than 300 of them will begin arriving for the convention It is authoritatively said that there is now little prospect of a revision of the Dominion of Canada, being appeared in the income tax rates. Suggestions of a "consumption tax," a higher tax on consumption tax," a higher tax on beer and liquors and a horisontal inches of Canada.

Canada alone will be repre by more than a score of its best for-estry experts. Charles Lathrop Pack, president of the American Forestry Association, and one of the best known foresters in America, will pre-

Dr. Harvey W. Wiley, America's foremost pure food authority, is a "tectotaler," but he stepped into that class voluntarily, and not because of ference will be taken under considera-

SEA FIGHTER REPAIRED.

NORFOLK, Va., Jan. 18 .- The sixfoot chunk that was torn out of the starboard stern of Uncle Sam's big battleship, the Delaware, December 26 is completely repaired today and the fighter is ready for the sea again. She was rammed by the naval tug Sonoma, whose bow also was badly damaged.

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